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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,380	02/24/2004	Mary Jane Cardosa	2316.2009-000	3579
22852	7590 09/21/2006		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER			MOSHER, MARY	
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	WASHINGTON, DC 20001-4413			

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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/786,380	CARDOSA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mary E. Mosher, Ph.D.	1648			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is expecified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iii apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1 and 11-34 is/are pending in the apple 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 11-34 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 11)	vn from consideration. relection requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected to be the drawing(s).	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/7/2005	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

Art Unit: 1648

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 18, 19, 33, and 34 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 18 and dependent claim 19 involve a pharmaceutical composition containing an MVA/T7 polymerase construct and a separate T7 promoter/dengue antigen construct. Applicant is invited to point to support for these claims in the specification, as such support is not apparent to the examiner. Furthermore, applicant is invited to point to support for the claims 33-34 process of recombining the dengue construct into the MVA construct, as support for this method also is not apparent.

Al'tshtein et al (Bioteknologiya 6: 12-18, 1992) is cited as evidence that, at the time the invention was made, it was known in the art that vaccinia with both an expressed T7 polymerase and an active T7 promoter was not viable, and that compositions similar to claim 11 were not suitable for use in live vaccines. See especially page 20.

Claims 15, 17-20, 33-34 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use

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the invention. These claims involve the two-component T7 expression system, with a dengue antigen expressed from a T7 promoter in one DNA, and the T7 polymerase expressed from MVA. Claims 15 and 17-20 are drawn to pharmaceutical compositions, and claims 33-34 are drawn to methods of recombination of the two components into a single MVA recombinant. As discussed in prosecution of the parent application, pharmaceutical use would require delivery of isolated DNA and MVA virus to the same cell for any expression to occur, and sufficient expression for a beneficial immune response to occur. The specification provides no guidance as to how to achieve this result. The specification also provides no guidance as to how to succeed in recombining the T7-promoted antigen gene into MVA. Al'tshtein et al is cited as evidence that, at the time the invention was made, it was known in the art that vaccinia with both an expressed T7 polymerase and an active T7 promoter was not viable, and that compositions similar to claim 11 were not seen as suitable for use in vaccines. See especially page 20. Considering the state of the art, the absence of guidance and the absence of working examples, it is concluded that undue experimentation would be required to enable the invention as claimed.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1, 11-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Cardosa et al WO 98/13500 (B9). This reference was published on 2 April 1998, which is more than one year before applicant's only claimed priority of 23 March 1999. Therefore, to whatever extent the instant application describes the invention as now claimed, the identical disclosure in the reference serves as a statutory bar.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary E. Mosher, Ph.D. whose telephone number is 571-272-0906. The examiner can normally be reached on varying dates and times; please leave a message.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

9/18/06

MARY E. MOSHER, PH.D. PRIMARY EXAMINER